



SEQUENCE LISTING

<110> KLIWER, Steven A.
JONES, Stacey A.
WILLSON, Timothy M.

<120> AN ORPHAN NUCLEAR RECEPTOR

<130> 510-125

<140> 09/276,935
<141> 1999-03-26

<150> 60/079,593
<151> 1998-03-27

<160> 18

<170> PatentIn Ver. 2.0

<210> 1
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Probe

<400> 1

ctgctgcgca tccaggacat

20

<210> 2

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Probe

<400> 2

gggtgtgggg aatccaccac catggaggtg agacccaaag aaagc

45

<210> 3

<211> 34

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Probe

<400> 3

gggtgtgggg gatcctcagc tacctgtgat gccg

34

<210> 4

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Probe

GL

```
<400> 4
gatcagacag ttcatgaagt tcatctagat c 31

<210> 5
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Probe

<400> 5
gatcaatatg aactcaaagg aggtcagtg 29

<210> 6
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Probe

<400> 6
gatcaatatg aactcaaagg aggtcagtg 29

<210> 7
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Probe

<400> 7
gatcaatatg ttctcaaagg agaacagtg 29

<210> 8
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Probe

<400> 8
gatcaataac aactcaaagg aggtcagtg 29

<210> 9
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Probe

<400> 9
gatgcagaca gttcatgaag ttcatctaga tc 32

<210> 10
<211> 11
<212> PRT
```

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Protein

<400> 10

Met Lys Lys Gly His His His His His His Gly
1 5 10

<210> 11

<211> 316

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Protein

<400> 11

Met Lys Lys Gly His His His His His Gly Ser Glu Arg Thr Gly
1 5 10 15

Thr Gln Pro Leu Gly Val Gln Gly Leu Thr Glu Glu Gln Arg Met Met
20 25 30

Ile Arg Glu Leu Met Asp Ala Gln Met Lys Thr Phe Asp Thr Thr Phe
35 40 45

Ser His Phe Lys Asn Phe Arg Leu Pro Gly Val Leu Ser Ser Gly Cys
50 55 60

Glu Leu Pro Glu Ser Leu Gln Ala Pro Ser Arg Glu Glu Ala Ala Lys
65 70 75 80

Trp Ser Gln Val Arg Lys Asp Leu Cys Ser Leu Lys Val Ser Leu Gln
85 90 95

Leu Arg Gly Glu Asp Gly Ser Val Trp Asn Tyr Lys Pro Pro Ala Asp
100 105 110

Ser Gly Gly Lys Glu Ile Phe Ser Leu Leu Pro His Met Ala Asp Met
115 120 125

Ser Thr Tyr Met Phe Lys Gly Ile Ile Ser Phe Ala Lys Val Ile Ser
130 135 140

Tyr Phe Arg Asp Leu Pro Ile Glu Asp Gln Ile Ser Leu Leu Lys Gly
145 150 155 160

Ala Ala Phe Glu Leu Cys Gln Leu Arg Phe Asn Thr Val Phe Asn Ala
165 170 175

Glu Thr Gly Thr Trp Glu Cys Gly Arg Leu Ser Tyr Cys Leu Glu Asp
180 185 190

Thr Ala Gly Gly Phe Gln Gln Leu Leu Glu Pro Met Leu Lys Phe
195 200 205

His Tyr Met Leu Lys Lys Leu Gln Leu His Glu Glu Glu Tyr Val Leu
210 215 220

Met Gln Ala Ile Ser Leu Phe Ser Pro Asp Arg Pro Gly Val Leu Gln
225 230 235 240

His Arg Val Val Asp Gln Leu Gln Glu Gln Phe Ala Ile Thr Leu Lys
245 250 255

Ser Tyr Ile Glu Cys Asn Arg Pro Gln Pro Ala His Arg Phe Leu Phe
260 265 270

Leu Lys Ile Met Ala Met Leu Thr Glu Leu Arg Ser Ile Asn Ala Gln
275 280 285

His Thr Gln Arg Leu Leu Arg Ile Gln Asp Ile His Pro Phe Ala Thr
290 295 300

Pro Leu Met Gln Glu Leu Phe Gly Ile Thr Gly Ser
305 310 315

<210> 12

<211> 242

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Protein

<400> 12

Met Lys Lys Gly Ser Ala Asn Glu Asp Met Pro Val Glu Arg Ile Leu
1 5 10 15

Glu Ala Glu Leu Ala Val Glu Pro Lys Thr Glu Thr Tyr Val Glu Ala
20 25 30

Asn Met Gly Leu Asn Pro Ser Ser Pro Asn Asp Pro Val Thr Asn Ile
35 40 45

Cys Gln Ala Ala Asp Lys Gln Leu Phe Thr Leu Val Glu Trp Ala Lys
50 55 60

Arg Ile Pro His Phe Ser Glu Leu Pro Leu Asp Asp Gln Val Ile Leu
65 70 75 80

Leu Arg Ala Gly Trp Asn Glu Leu Leu Ile Ala Ser Phe Ser His Arg
85 90 95

Ser Ile Ala Val Lys Asp Gly Ile Leu Leu Ala Thr Gly Leu His Val
100 105 110

His Arg Asn Ser Ala His Ser Ala Gly Val Gly Ala Ile Phe Asp Arg
115 120 125

Val Leu Thr Glu Leu Val Ser Lys Met Arg Asp Met Gln Met Asp Lys
130 135 140

Thr Glu Leu Gly Cys Leu Arg Ala Ile Val Leu Phe Asn Pro Asp Ser
145 150 155 160

Lys Gly Leu Ser Asn Pro Ala Glu Val Glu Ala Leu Arg Glu Lys Val
165 170 175

Tyr Ala Ser Leu Glu Ala Tyr Cys Lys His Lys Tyr Pro Glu Gln Pro
180 185 190

Gly Arg Phe Ala Lys Leu Leu Leu Arg Leu Pro Ala Leu Arg Ser Ile
195 200 205

Gly Leu Lys Cys Leu Glu His Leu Phe Phe Phe Lys Leu Ile Gly Asp
210 215 220

Thr Pro Ile Asp Thr Phe Leu Met Glu Met Leu Glu Ala Pro His Gln
225 230 235 240

Met Thr


<210> 13

<211> 2146

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Probe

<400> 13

tggaaatatag gtgagagaca agattgtctc atatccgggg aaatcataac ctatgactag 60
gacggagaaga ggaagcactg cctttacttc agtggaaatc tcggcctcag cctgcaagcc 120
aagtgttac agtgagaaaa gcaagagaat aagctaatac tcctgtcctg aacaaggcag 180
cggttccttg gttaaagctac tccttgcattc atcctttgc a cccgattttt cttttttttt 240
cccaggggag aagtgcggc aaagaactta ccaccaagca gtcccaagagg cccagaagca 300
aacctggagg tgagacccaa agaaagctgg aaccatgtc acctttgtaca ctgtgaggac 360
acagagtctg ttccctggaaa gcccagtgtc aacgcagatg aggaagtcgg aggtccccaa 420
atctggcggtg tatgtggggaa caaggccact ggcttataact tcaatgtcat gacatgtgaa 480
ggatgcaagg gcttttcag gaggggccatg aaacgcaacg cccggcttag gtgcggcccttc 540
cgaaaggggcg cctgcgagat caccggaaag accccggcgc acgtgccaggc ctggccgcctg 600
cgcaagtgcc tggagagcgg catgaagaagag gagatgtaca tgtccgacga ggcgttgag 660
gagaggccgg ctttgcattc ggcgaagaaa agtgcacccg caggactca gccacttgga 720
gtgcaggggc tgacagagga gcaaggatgtc atgatcaggg agtgcgtatgg cgcgtcagatg 780
aaaaccccttg acactaccc tcccccatttc aagaatttcc ggctgccagg ggtgccttagc 840
atggcgtcg agttgcaga gtctctgcag gccccatcga gggagaagc tgccaaatgg 900
agccagggtcc gggaaatgttcttgcgttcc aagggtcttc tgcaatgtcg gggggaggat 960
ggcagtgtct gggaaatccaa acccccaccc gacagtggcg gggaaagatcttcccttc 1020
ctggcccccaca tggctgacat gtcacacccatc atgttcaag gcatcatcag ctttgcctt 1080
gtcatcttctt acttcaggaa ctggcccatc gaggaccaga tctccctgtc gaagggggcc 1140
gtcttcggc tggatgtcaact gagattcaac acagtgttca acgcggagac tggaaatctgg 1200
gagtgtggcc ggctgttcttca ctgttggaa gacactgcag gtggcttcca gcaacttctt 1260
ctggagccca tgctgaaatt ccactacatg ctgaaatggc tgcacatgtca tgaggaggag 1320
tatgtgttca tgcaggccat ctccttcttc tccccagacc gcccagggtgt gctgcagcac 1380
cgctgttgg accagctgca ggagcaattt gcccatttc tgaatgttca cattgtatgc 1440
aatcggccccc agcctgtca tagtttcttgc ttcctgttca tcatggctat gtcaccggag 1500
ctccgcacca tcaatgttca gcaacccatc cggctgttc gcatccggc catacacc 1560
tttgcgtacgc ccctcatgca ggatgttgc ggcacatcag ttagctgaccc ggctggccctt 1620
gggtgcacacc tccggagaggc agccagaccc agggccctt gaggccggc tccggccca 1680
agacagatgg acactgcca gggccgacaa tggccctgtc gcctgttcc ttagggaaat 1740
cctgttatgtca cagctgttca gcatccatc gggaggacat ggggtcccc caccggcc 1800
tcagttgttca gggatgttca gggccatc ttacgttgc ggtgcactga cctgttaggtc 1860
aggaccatca gagaggccaa gtttgccttt cttttttttt gggccctgttgc tctggggaga 1920
aatcccttca atccctactaa agtgtcaagg tggatgttca gggccatc tggatgttca 1980
ccatctgggg tctatgttca cataccaccc tttgttgcgt ttcgttgcgt tttcattgtt 2040
acctctaata gtcctgttca ccacttccca ctgttccccc tccctttccg agctgtttt 2100
tgggtccatc gctgttactc atccggcaggat gcatgatgttca tggatgttca 2146

<210> 14
<211> 414
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Protein

<400> 14
Leu Glu Val Arg Pro Lys Glu Ser Trp Asn His Ala Asp Phe Val His
1 5 10 15

Cys Glu Asp Thr Glu Ser Val Pro Gly Lys Pro Ser Val Asn Ala Asp
20 25 30

Glu Glu Val Gly Gly Pro Gln Ile Cys Arg Val Cys Gly Asp Lys Ala
35 40 45

Thr Gly Tyr His Phe Asn Val Met Thr Cys Glu Gly Cys Lys Gly Phe
50 55 60

Phe Arg Arg Ala Met Lys Arg Asn Ala Arg Leu Arg Cys Pro Phe Arg
65 70 75 80

Lys Gly Ala Cys Glu Ile Thr Arg Lys Thr Arg Arg Gln Cys Gln Ala
85 90 95

Cys Arg Leu Arg Lys Cys Leu Glu Ser Gly Met Lys Lys Glu Met Ile
100 105 110

Met Ser Asp Glu Ala Val Glu Glu Arg Arg Ala Leu Ile Lys Arg Lys
115 120 125

Lys Ser Glu Arg Thr Gly Thr Gln Pro Leu Gly Val Gln Gly Leu Thr
130 135 140

Glu Glu Gln Arg Met Met Ile Arg Glu Leu Met Asp Ala Gln Met Lys
145 150 155 160

Thr Phe Asp Thr Phe Ser His Phe Lys Asn Phe Arg Leu Pro Gly
165 170 175

Val Leu Ser Ser Gly Cys Glu Leu Pro Glu Ser Leu Gln Ala Pro Ser
180 185 190

Arg Glu Glu Ala Ala Lys Trp Ser Gln Val Arg Lys Asp Leu Cys Ser
195 200 205

Leu Lys Val Ser Leu Gln Leu Arg Gly Glu Asp Gly Ser Val Trp Asn
210 215 220

Tyr Lys Pro Pro Ala Asp Ser Gly Gly Lys Glu Ile Phe Ser Leu Leu
225 230 235 240

Pro His Met Ala Asp Met Ser Thr Tyr Met Phe Lys Gly Ile Ile Ser
245 250 255

Phe Ala Lys Val Ile Ser Tyr Phe Arg Asp Leu Pro Ile Glu Asp Gln
260 265 270

Ile Ser Leu Leu Lys Gly Ala Ala Phe Glu Leu Cys Gln Leu Arg Phe
275 280 285

Asn Thr Val Phe Asn Ala Glu Thr Gly Thr Trp Glu Cys Gly Arg Leu
290 295 300

Ser Tyr Cys Leu Glu Asp Thr Ala Gly Gly Phe Gln Gln Leu Leu Leu
305 310 315 320

Glu Pro Met Leu Lys Phe His Tyr Met Leu Lys Lys Leu Gln Leu His
325 330 335

Glu Glu Glu Tyr Val Leu Met Gln Ala Ile Ser Leu Phe Ser Pro Asp
340 345 350

Arg Pro Gly Val Leu Gln His Arg Val Val Asp Gln Leu Gln Glu Gln
355 360 365

Phe Ala Ile Thr Leu Lys Ser Tyr Ile Glu Cys Asn Arg Pro Gln Pro
370 375 380

Ala His Arg Phe Leu Phe Leu Lys Ile Met Ala Met Leu Thr Glu Phe
385 390 395 400

Ala Thr Pro Leu Met Gln Glu Leu Phe Gly Ile Thr Gly Ser
405 410

<210> 15

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Probe

<400> 15

atatgaactc aaaggaggtc agtg

24

<210> 16

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Probe

<400> 16

atatgttctc aaaggagaac agtg

24

<210> 17

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Probe

<400> 17

ataacaactc aaaggaggtc agtg

24

<210> 18
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Probe

<400> 18
agatgaactt catgaactgt c

21